

Xianyang Yinghe Electronic Material Co. Ltd.

Glass Powder Catalogue

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Founded in Jun. 2014 and located in the beautiful ancient city Xianyang Shaanxi, Xianyang Yinghe Electronic Material Co. Ltd. is a high-tech enterprise professionally manufactures low melting point glass which is widely used in electronic slurry(including conductive slurry, medium slurry, and resistor slurry), high temperature printing ink, automobile printing ink, toughened ink, solar energy silver slurry, aluminum slurry etc. many fields. The company has passed the authentication of ISO9001: 2015 Quality Assurance System and proudly obtained the AAA Grade Honored Unit issued by Quality Assurance Centre of Shaanxi Province. From dissolving to crushing to classification, with special fabrication method, it is produced under strict quality management system, which has been long trusted and admitted people in the field. Especially we provide much faster technical service to satisfy customers' various needs. **The company holds professional, honest, cooperative and mutual-win concept, is willing to work together with person with insight to create a beautiful future.**

Application		Main Purpose
Electronic Slurry	Conductive Slurry	silver slurry for electronic component, silver slurry for solar energy, aluminum slurry for solar energy.
	Electronic Resistance slurry	Ruthenium series electronic slurry, silver palladium resistor slurry, carbon film resistor slurry
	medium slurry	chip resistor sealing medium slurry, stainless steel insulation medium slurry, other insulation and sealing medium slurry
High Temperature Printing Ink		Automobile printing ink, Family electrical appliances printing ink, photovoltaic high reflection printing ink

Glass Powder for Conductive Slurry

Glass Powder species	Glass Powder System	Softening Point °C	Expansion coefficient ($\times 10^{-6}/^{\circ}\text{C}$)	Type of applied slurry	Application Field	Performance and Characteristics	Firing Temperature applied °C	If in accord with ROHS
GP2002	Bi ₃ O ₃ -SiO ₂ -CuO-MnO ₂	687	9.5	Conductive slurry	Conductive silver slurry, silver palladium slurry for thick film electric circuit	Very good attaching force with aluminum oxide base, good resistance to acid	850±50	yes
GP2003	V ₂ O ₅ -ZnO	526	6.4	Conductive slurry		Very good attaching force with aluminum oxide base	850±50	yes
GP2005	Bi ₃ O ₃ -SiO ₂ -CuO-MnO ₂ -V ₂ O ₅ -ZnO	687	9.5	Conductive slurry	Chip resistance back electrode	Very good attaching force with aluminum oxide base, good resistance to acid	850±50	yes
GP2007	CaO-Al ₂ O ₃ -SiO ₂	550	6	Conductive slurry	chip resistor face silver electrode	Very good soldering resistance	850±50	yes
GP2009	CaO-Al ₂ O ₃ -SiO ₂	580	6.5	Conductive slurry		good resistance to acid, good soldering resistance	850±50	yes
GP2016	Bi ₂ O ₃ -B ₂ O ₃ -ZnO	450	7.8	Conductive	Ceramic capacitor,	Good attaching	750~800	yes

				slurry	filter electrode slurry, NTC, PTC etc. Resistor electrode slurry, and varistor electrode slurry.	force, Good electrical performance		
GP2018	Bi2O3-B2O3	420	8.2	Conductive slurry		Good attaching force, Good electrical performance	550~600	yes
GP2019	Bi2O3-B2O3-ZnO	430	7.9	Conductive slurry		Good attaching force, Good electrical performance	550	yes
GP2022	V2O5 -ZnO-BaO	450	7.5	Conductive slurry	Solar energy back aluminum slurry	Good electrical performance	870	yes
GP2023	Bi3O3-PbO-SiO2-CuO-MnO2	630	9.8	Conductive slurry	Solar energy back silver slurry	Big pulling force , Good electrical performance	870	yes

Glass Powder for Medium Slurry

Type	Composition System	Softening point °C	Expansion Coefficient (×10 ⁻⁶ /°C)	Type of Applied Slurry	Application Field	Performance	Firing Temperature of application °C	If in accord with ROHS
GP3001	Bi ₂ O ₃ -B ₂ O ₃ -SiO ₂ -R ₂ O	480	7.2	Medium slurry	Chip resistor first time sealing medium slurry	Good resistant to acid, small change rate of sealing	600±5	Yes
GP3002	Bi ₂ O ₃ -B ₂ O ₃ -SiO ₂	470	8	Medium slurry	Sealing slurry of sealing protection for resistor net, thick film HIC	Good matching with resistor, aluminum oxide base	525±5	Yes
GP3006	CaO-Al ₂ O ₃ -SiO ₂	650	7.3	Medium slurry	On the base of stainless steel	Large expansion coefficient and good matching with stainless steel base	850±50	Yes
GP7002	B ₂ O ₃ -ZnO	598	5.4	Medium slurry	On the micro-crystal glass	Small expansion coefficient, good matching with base	650±10	Yes

Glass Powder for High temperature Printing Ink

Type	Composition System	Softening point °C	Expansion Coefficient ($\times 10^{-6}/^{\circ}\text{C}$)	Type of Applied Slurry	Application Field	Performance	Firing Temperature of application °C	If in accord with ROHS
GP3015	Bi ₂ O ₃ -B ₂ O ₃ -SiO ₂ -R ₂ O	465	8.8	Automobile printing ink	Automobile front shield glass printing ink	Low firing temperature and good resistance to acid	530~560	Yes
GP3016	Bi ₂ O ₃ -B ₂ O ₃ -SiO ₂ -ZnO-R ₂ O	478	9.7	Automobile printing ink	Automobile back shield glass printing ink	Good resistance to acid, Good concealment for silver paste	690-720	Yes
GP 3018	Bi ₂ O ₃ -B ₂ O ₃ -SiO ₂ -R ₂ O	495	8.5	Family Electrical Appliance Printing Ink	Family Electrical Appliance decoration printing ink	VERY Good resistance to acid	690-720	Yes
GP3020	Bi ₂ O ₃ -B ₂ O ₃ -SiO ₂ -ZnO-R ₂ O	467	7.4	Family Electrical Appliance Printing Ink	Family Electrical Appliance decoration printing ink	Good color, good light avoidance, good performance for cold and hot impact and mechanics	650-720	Yes
GP3021	SiO ₂ -B ₂ O ₃ -ZnO-R ₂ O	474	9.5	Photovoltaic Printing Ink	Photovoltaic back plate high reflection printing ink	High reflection, good chemical stability	690-720	Yes

Glass Powder for Resistor Slurry

Type	Composition System	Softening point °C	Expansion Coefficient ($\times 10^{-6}/^{\circ}\text{C}$)	Type of Applied Slurry	Application Field	Performance	Firing Temperature of application °C	If in accord with ROHS
GP1001	PbO-B ₂ O ₃ -SiO ₂	538	6.7	Ruthenium Series Resistor Slurry	Resistor slurry for thick film circuit and chip resistor	Good matching performance with aluminum oxide base, good matching with ruthenium series phase	850±10	NO
GP1002	PbO-B ₂ O ₃ -SiO ₂	519	5.9					
GP1005	PbO-B ₂ O ₃ -SiO ₂	541	6.4					
GP1007	PbO-B ₂ O ₃ -SiO ₂	607	5.9					
GP2008	BaO -CaO-SiO ₂	750	8.4	Silver palladium resistance paste	Stainless steel heating device of Stainless steel	Small change rate of encapsulation	850±10	Yes

Glass Powder for High Temperature

Type	Composition System	Softening point °C	Expansion Coefficient ($\times 10^{-6}/^{\circ}\text{C}$)	Type of Applied Slurry	Application Field	Performance	Firing Temperature of application °C	If in accord with ROHS
GP4001	P2O5-ZnO-R2O	360	14	High temperature coating	metal	Good matching with metal	600°C	Yes
GP4002	P2O5-ZnO-R2O	400	13					
GP4003	P2O5-ZnO-R2O	570	9.0					